

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	10/686,	4	901	<del>1</del>	
Source:		1	FWE	),	 _
Date Processed by STIC:		8	126	104	_
,			_		

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER
VERSION 4:2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND
TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box-1450, Alexandria, VA 22313-1450
- 3: Hand Carry, Federal-Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):
  U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

Revised 05/17/04

## Raw Sequence Listing Error Summary

	/ 2/ //2 /
ERROR DETECTED	SUGGESTED CORRECTION SERIAL NUMBER: 10/686, 490 A
ATTN: NEW RULES CASES	: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE
IWrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
Misaligned Amino Numbering	The numbering under each 5 <sup>th</sup> amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5Variable Length	Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7Skipped Sequences (OLD RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:  (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  This sequence is intentionally skipped
•	Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8Skipped Sequences (NEW RULES)	Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing.  Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.  In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species) <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
Use of <220>	Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses.  Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.  (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
Patentin 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13 Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



**IFWO** 

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/686,490A

DATE: 08/26/2004

TIME: 11:28:05

Input Set : A:\35991.ST25-US.txt

Output Set: N:\CRF4\08262004\J686490A.raw

	4 5 6 6 7 9 10	<110><120><130><140><141><160><1210><210><211><211><212><	TI CU CU NU SO SE LE	TLE IRREN IR	OF IREFERIT AF IT	RENCE PPLIC LING SEQ Pate 1	TION E: Le CATIO B DAT ID: entIr	I: Ar eA 35 ON NU CE: 2 2	nti-F 5 991 UMBER 2003- csior	Kazla L R: US - <b>10-1</b>	uska 3/10/ 15	18-Li	4902		-		ored D	lot Com iskette i	Veedec	Company of the Compan
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	35	aaa c	tt	gaa	ggc	gtg	aaa	aaa	ccg	aac	att	gcc	cgg	gta	ttt	ctc	ctg	240		
	36	Lys L	eu	Glu	Gly	Val	Lys	Lys	Pro	Asn	Ile	Ala	Arg	Val	Phe	Leu				
		65					70					75					80			
		gcg a																288	-	
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		cac g	ıt a	att		atc	tcc	atq	aac		at.o	att	aca	cag		cta	aaa	384		
	48	His V	al,	Val	Glv	Val	Ser	Met	Glv	Gly	Met	Ile	Ala	$\operatorname{Gln}$	Ile	Leu	Gly			
	49			115	1	· <del>-</del>			120					125			•			
	51	gcg a	ag	cac	ggg	gag	cgg	gtg	aaa	tcc	ctt	acc	ctg	atg	att	acc	tcc	432		
	52	Ala I	.ys	His	Gly	Glu	Arg	Val	Lys	Ser	Leu	Thr	Leu	Met	Ile	Thr	Ser			
	53		.30		-		_	135					140							

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	55	tcc	ggc	aac	CCC	cgc	atg	ccg	gcg	CCC	agg	ccg	cag	gtg	ctg	caa	aag	•	480
	56	Ser	Gly	Asn	Pro	Arg	Met	Pro	Ala	Pro	Arg	Pro	Gln	Val	Leu	Gln			
		145					150					155					160		
	59	ttt	atg	cgg	gtg	CCC	aag	agc	atg	gat	aag -	gaa	gag	tgg	att	aaa	tac		528
		Phe	Met	Arg	Val		Lys	Ser	Met	Asp		GIu	GIu	Trp	He		Tyr		
	61					165				~~~	170		~~~	++~	~~~	175	ana		576
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	68	Lvs	Leu	Ala	Leu	Asp	Val	Ara	Lvs	Ser	Ile	Glu	Arq	Cys	Leu	Cys	Pro		
	69	-1-		195		L		7	200					205		_			
		gaa	ggc	acg	cag	cgg	cag	ctg	gca	gcc	atc	ctg	cag	agc	ggc	agc	agg		672
	72	Glu	Gly	Thr	Gln	Arg	Gln	Leu	Ala	Ala	Ile	Leu	Gln	Ser	Gly	Ser	Arg		
	73		210					215					220						
	75	gtg	aag	ctg	ctc	cgg	cgg	atc	gct	gtc	CCC	acc	ctg	gtc	atc	agc	<u>a</u> aa		720
			Lys	Leu	Leu	Arg		Ile	Ala	Val	Pro		Leu	Val	Ile	Ser			
		225					230					235					240		768
					CCC														700
		Ата	GIU	Asp	Pro	_eu	Leu	PLO	туr	GTII	250	GTA	Arg	Asp	TIC	255	Авр		
	81	cat	ato	cca	gga		cac	ttc	gag	ctc		gag	aac	ato	aaa		gac		816
	84	His	Tle	Pro	Gly	Ala	Ara	Phe	Glu	Leu	Ile	Glu	Gly	Met	Gly	His	Asp		
	85	1110			260		,			265			1		270		-		
		att	ccc	gag	cgg	cac	atc	CCC	cgg	ctg	att	gag	ctc	atc	gcc	999	cac		864
	88	Ile	Pro	Glu	Arg	His	Ile	Pro	Arg	Leu	Ile	Glu	Leu	Ile	Ala	Gly	His		
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		1 65					70	1				75					80		
			a Se:	r Me	t Gly	/ Le	u Ly:	s Pro	o Ar	g Va	l Pr	о Ту	r Th	r Le	u As	p As	p Met		
	12				_	85	-				90					95			

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Input Set : A:\35991.ST25-US.txt

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	Ala		Asp	Thr 100	Val	Gly	Leu	Met	Asp 105	Ala	Leu	Gly	Ile	Glu 110	Ser	Thr
		Val		Gly	Val	Ser	Met	_	_					Ile	Leu	Gly
133		_	115	~7	~ 7	-	7	120		-			125	<b></b> 3	m1	
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137		130					135					140	_		. =	
140	Ser	Gly	Asn	Pro	Arg		Pro	Ala	Pro	Arg		Gln	Val	Leu	Gln	_
	145					150				•	155					160
144	Phe	Met	Arg	Val	Pro	Lys	Ser	Met	Asp	Lys	Glu	Glu	${\tt Trp}$	Ile	Lys	$\mathtt{Tyr}$
145				*	165					170					175	
148	Asn	Leu	Glu	Leu	Leu	Thr	Thr	Ile	Gly	Ser	Pro	Gly	Leu	Asp	Arg	Glu
149				180					185					190		
152	Lys	Leu	Ala	Leu	Asp	Val	Arg	Lys	Ser	Ile	Glu	Arg	Cys	Leu	Cys	Pro
153			195					200					205			
156	Glu	Gly	Thr	Gln	Arg	Gln	Leu	Ala	Ala	Ile	Leu	Gln	Ser	Gly	Ser	Arg
157		210					215					220		_		
160	Val	Lys				Arq	Ile	Ala	Val	Pro	Thr	Leu	Val	Ile	Ser	Gly
	225	-			•						235					240
164	Ala	Glu	Asp	Pro	Leu	Leu	Pro	Tyr	Gln	Cys	Gly	Arq	Asp	Ile	Ala	Asp
165			_		245			•		250	_	-	_		255	-
		Ile	Pro	Glv	Ala	Ara	Phe	Glu	Leu	Ile	Glu	Glv	Met	Gly	His	Asp
169				260					265			4		270		-
	Tle	Pro	Glu						Leu	Ile	Glu	Leu	Ile	Ala	Glv	His
			275	5				280					285		1	
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